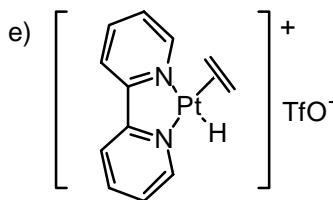
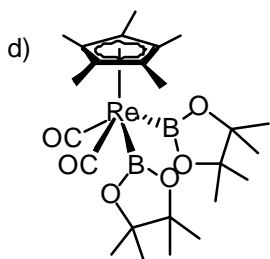
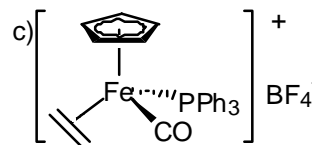
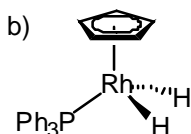
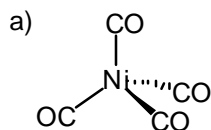
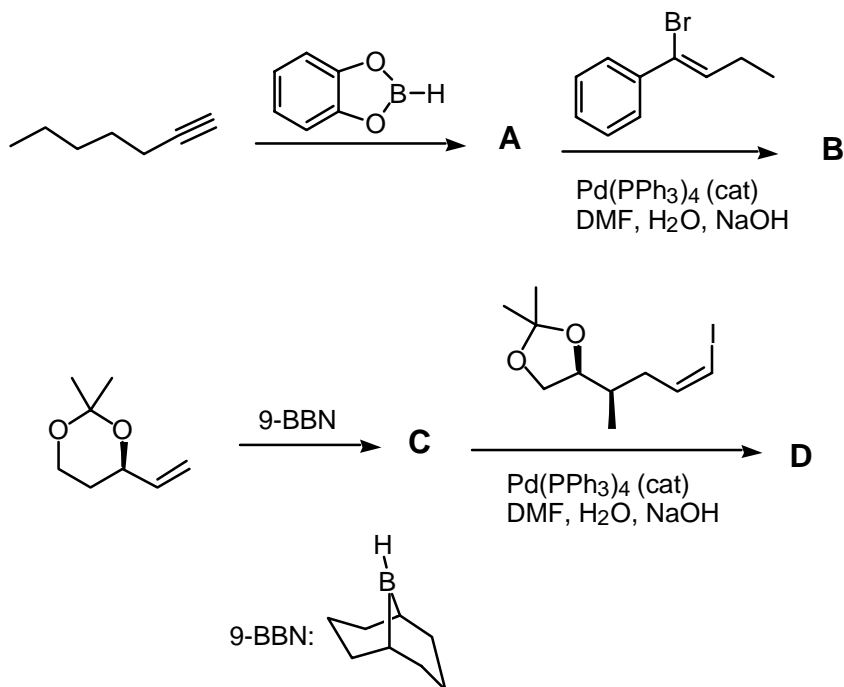


Problem Set 2

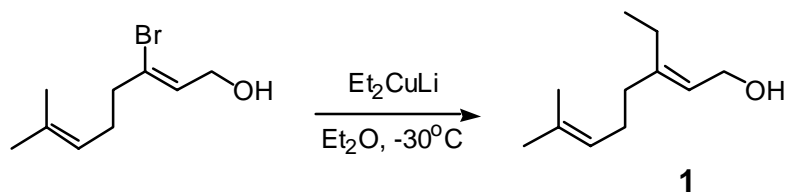
1. Specify oxidation states of the metal, coordination number and geometry of the following complexes.



2. Draw products **A** and **B**; **C** and **D**.



3. Compound **1** was prepared as shown below via organometallic chemistry. Director of a scale-up team assigned you the development of a more economical synthesis of **1**. How would you solve this problem? (Hint: Suzuki reaction)



4. From which of the following compounds can you prepare Grignard reagents directly? Propose a solution for those compounds you foresee a problem.

